

ABSTRACT OF THE DISCLOSURE

The invention relates to a method for the preparation of evolved microorganisms which permit a modification of metabolic pathways, comprising the following steps: a) production of a modified microorganism by genetic modification of initial microorganism cells such as to inhibit the production of or the consumption of a metabolite when the microorganism is cultivated in a defined medium which also affects the capacity of the microorganism for growth, b) culture of the modified microorganisms to induce evolution in said cells, c) selection of the cells of modified microorganisms which are capable of developing in the defined medium. The invention also relates to the strains of evolved microorganisms, the genes evolved which code for evolved proteins and the use of said evolved microorganisms, genes or proteins in a biotransformation method.